

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A light emitting device comprising an LED and at least one phosphor material, wherein a first phosphor material with a decay time of less than about 3 ms is positioned close to the LED and a second phosphor material with a relatively slower decay time is positioned relatively further from the LED, and wherein for each phosphor material, the product of (incident LED flux) x (excitation cross-section of the phosphor) x (phosphor material decay time) is less than 0.3.

2. (Original) The device of claim 1, wherein the LED is comprised of a semiconductor material.

3. (Original) The device of claim 1, wherein the LED emits light between 350 and 490 nm.

4. (Original) The device of claim 1, wherein the product is less than 0. 1.

5. (Currently Amended) The device of claim 1, wherein ~~[[the]]~~ each phosphor material provides Eu²⁺-Mn²⁺ energy transfer.

6. (Currently Amended) The device of claim 1, wherein said first phosphor material includes at least one of Eu³⁺, Tb³⁺, Mn⁴⁺, Pr³⁺, Eu²⁺, or Ce³⁺.

7. (Currently Amended) The device of claim 6, wherein the second phosphor material is dispersed farther from the LED chip than the phosphor of claim 6 and wherein said ~~second~~ phosphor material has a slower decay time than the phosphor of claim 6.

8. (Cancelled)

9. (Currently Amended) The device of claim 1, wherein the second ~~said~~-phosphor material is positioned remote to the LED.

10. (Cancelled)

11. (Previously Presented) The device of claim 1 having three or more phosphor layers.

12. (Original) The device of claim 11, wherein each phosphor layer in a direction outward from the LED has a longer decay time.

13. (Previously Presented) The device of claim 1 wherein said phosphor layers are comprised of one or more phosphor.

14. (Original) The device of claim 1 including a phosphor with a decay time less than about 1 ms and positioned relatively closer to the LED and a phosphor positioned farther away from the LED and having a decay time of greater than about 3 ms.

15. (Currently Amended) The device of claim 1, wherein Eu^{2+} - Mn^{2+} phosphors are used in the layers farther from the LED.

16. (Previously Presented) A method for producing a phosphor conversion LED lamp, the method comprising the steps of providing an LED chip and subsequently depositing at least one phosphor material over the LED chip, wherein a first phosphor material with a decay time of less than about 3 ms is positioned close to the LED and a second phosphor material with a relatively slower decay time is positioned relatively further from the LED, and wherein the phosphor materials are selected and deposited such that for each phosphor material, the product of (incident LED flux) \times (excitation cross-section of the phosphor) \times (phosphor material decay time) is less than 0.3.